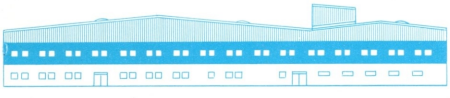
norma

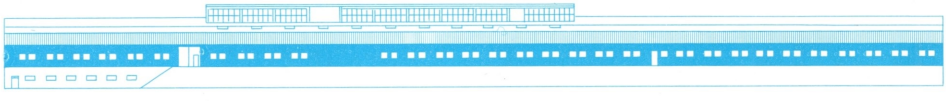
AMMUNITION AND COMPONENTS

TECHNICAL INFORMATION

New Norma Factory

The building was up to ground level when this picture was taken last November. Six 100 meter ranges and several shorter ones at 50 and 30 meters for pistol ammo tests were partly covered by the main floor, on which all production will take place. The building with its 445 feet length and production area of 84 000 square feet will make a useful addition to the earlier Norma facilities in Åmotfors. New machinery will increase production and at the same time further improve quality. The factory is located in a beautiful area of lakes and forests and could be run three shifts by daylight in the summer, but will also have to take severe winter temperatures. Construction will be finished by August 1967.





NEW

DISPLAY BOARD

WITH NORMA BULLETS AND CASES

At last! The Norma case and bullet display board so many have been asking for. A sturdy quality item, showing the entire export program of Norma cartridge cases and bullets. No explosive merchandise involved, the display can be shipped and hung anywhere. It will be a great help in dealer's stores, enabling the customer to see the Norma case or bullet he wants to obtain. The new display will also be a collector's delight, we have had thousands of requests for something along this line. Ask your dealer for further details on the Norma display board.

NEW

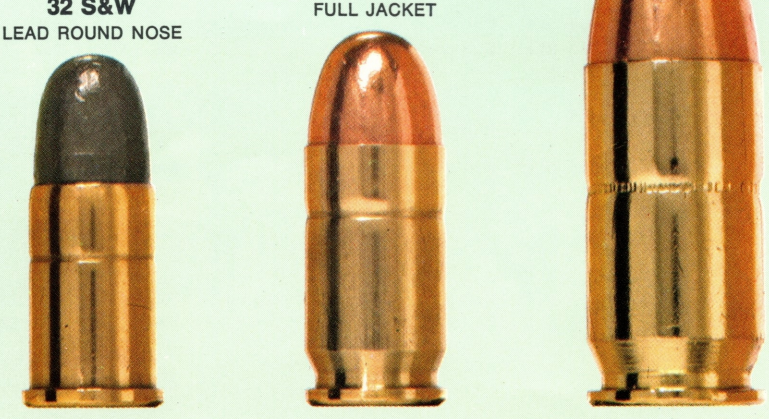
norma

SUPER 7x61

7×61 S&H — INSIDE IMPROVED!

Many existing cartridges have been more or less improved by blowing out the shoulder area of the case, increasing the powder space. This necessitates rechambering of the rifle. The 7×61 S&H has always been an extremely popular long range cartridge, yet we have desired to improve it. A market research clearly established that the 160 grain bullet should be retained. We did not consider an outside alteration very important, besides there were far too many guns on the market to make rechambering practical. Therefore, we went to work on the inside of the case, incorporating new head and wall dimensions that we over several years have designed for Magnum brass. It might be surprising that a thinner web and wall make a stronger case. They do, because of improved heat-treating and metallurgical properties of the brass material. The thinner, but stronger case walls can take more working in firing and resizing without developing weak spots. The super 7×61 will fit all rifles chambered for the 7×61 S&H cartridge, changes are only on the inside. The increased powder volume made it possible to increase muzzle velocity. The Super 7×61 starts its excellent 160 grain bullet off at a far-reaching 3150 feet per second!

NEW



32 S&W

With the introduction of the .32 S&W we now have both the regular and the long version of this popular cartridge in the Norma program. It is fun to shoot the .32 caliber guns, and there are plenty of them around!

380 ACP

This cartridge is also known as the "9 MM Short" and its introduction by Norma will undoubtedly bring lots of War-time Walthers and other interesting guns to the pistol ranges again. New guns in .380 ACP caliber are also sold in large numbers these days.

45 ACP

The 45 ACP is one of the calibers that hardly needs further description. Surplus stocks have been around since the war, but nothing lasts forever, and there is now plenty of interest in factory new ammunition for police and target work.

norma CENTERFIRE RIFLE CARTRIDGES AND BRASS CASES

22 HORNET (Case index no. 844)

Cart. index no.	Bullet weight grains	Bullet weight grams	Bullet style	Bullet index no.	Velocity – Feet per sec. Muzzle	100 yards	200 yards	300 yards
251	45	2.9	Soft point semi pointed	679	2690	2030	1510	1150

220 SWIFT (Case index no. 751)

1	50	3.2	Soft point semi pointed	607	4110	3611	3133	2681

222 REM. (Case index no. 752)

3	50	3.2	Soft point semi pointed	607	3200	2650	2170	1750

223 (Case index no. 817)

234	55	3.6	Soft point pointed	609	3300	2900	2520	2160

22-250 (Case index no. 810)

230	50	3.2	Soft point semi pointed	607	3800	3300	2810	2350
231	55	3.6	Soft point semi pointed	609	3650	3200	2780	2400

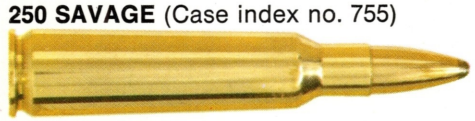
243 WIN. (Case index no. 753)

5	75	4.9	Hollow point Ⓣ	503	3500	3070	2660	2290
151	100	6.5	Soft point semi pointed	566	3070	2790	2540	2320

6 MM REM. (Case index no. 828)

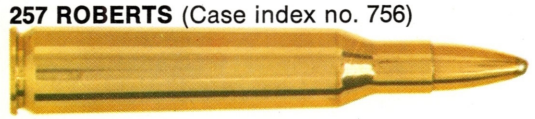
228	100	6.5	Soft point semi pointed	566	3190	2920	2660	2420

250 SAVAGE (Case index no. 755)



9	87	5.6	Soft point semi pointed	505	3030	2660	2330	2060
10	100	6.5	Soft point semi pointed	506	2820	2514	2223	1956

257 ROBERTS (Case index no. 756)



11	100	6.5	Soft point semi pointed	506	2900	2588	2291	2020
12	120	7.8	Soft point semi pointed	507	2650	2405	2177	1964

6.5 JAP. (Case index no. 757)

13	139	9.0	Soft point semi pointed boattail Ⓣ	508	2428	2280	2130	1990
14	156	10.1	Soft point round nose Ⓣ	509	2067	1871	1692	1529

6.5×54 MS (Case index no. 758)

16	139	9.0	Soft point semi pointed boattail Ⓣ	508	2575	2420	2270	2120
17	156	10.1	Soft point round nose Ⓣ	509	2461	2240	2033	1840

6.5 CARCANO (Case index no. 829)

233	156	10.1	Soft point round nose Ⓣ	509	2000	1810	1640	1485

6.5×55 (Case index no. 759)

20	139	9.0	Soft point semi pointed boattail Ⓣ	508	2788	2630	2470	2320
22	156	10.1	Soft point round nose Ⓣ	509	2493	2271	2062	1867

Ⓣ Norma TRI-CLAD® bullet, a soft steel jacket covered with gilding metal or nickel alloy on both sides preventing corrosion and barrel wear.

270 WIN. (Case index no. 760)

Cart. index no.	Bullet weight grains	grams	Bullet style	Bullet index no.	Velocity – Feet per sec. Muzzle	100 yards	200 yards	300 yards
24	110	7.1	Soft point semi pointed	621	3250	2966	2694	2435
25	130	8.4	Soft point semi pointed boattail Ⓣ	515	3140	2884	2639	2404
103	130	8.4	Soft point "Nosler"	588	3140	2884	2639	2404
28	150	9.7	Soft point semi pointed boattail	518	2800	2616	2436	2262
104	150	9.7	Soft point "Nosler"	589	2800	2616	2436	2262

7×57 (Case index no. 761)

29	110	7.1	Soft point semi pointed	519	3067	2792	2528	2277
30	150	9.7	Soft point semi pointed boattail Ⓣ	520	2756	2539	2331	2133
32	175	11.3	Soft point round nose Ⓣ	522	2490	2170	1900	1680

SUPER 7×61 (Case index no. 847)

257	160	10.4	Soft point semi pointed boattail Ⓣ	523	3150*	2927	2757	2595
262	160	10.4	Soft point "Nosler"	590	3150*	2927	2757	2595
					*) 26 INCH BARREL			

7 MM REM. MAGNUM (Case index no. 826)

240	150	9.7	Soft point semi pointed boattail Ⓣ	520	3260*	2970	2700	2450
124	175	11.3	Soft point "Nosler"	654	3070*	2900	2740	2590
241	175	11.3	Soft point round nose Ⓣ	522	3020*	2720	2400	2120
					*) 26 INCH BARREL			

30 US CARBINE (Case index no. 763)

35	110	7.1	Soft point round nose Ⓣ	524	1970*	1595	1300	1090
					*) 18 INCH BARREL			

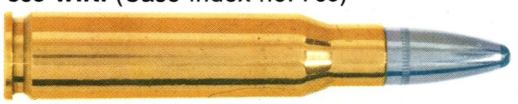
30-30 WIN. (Case index no. 764)

193	150	9.7	Soft point flat nose Ⓣ	561	2410	2075	1790	1550
37	170	11.0	Soft point flat nose Ⓣ	526	2220	1890	1630	1410

308 NORMA MAGNUM (Case index no. 811)

179	180	11.6	Soft point "Dual-Core" Ⓣ	578	3100	2881	2668	2464

308 WIN. (Case index no. 765)

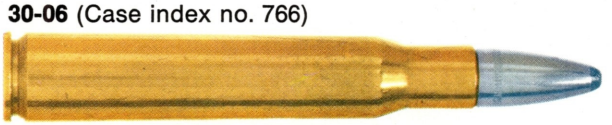


143	130	8.4	Soft point semi pointed boattail Ⓣ	529	2900	2590	2300	2030
38	150	9.7	Soft point semi pointed boattail	630	2860	2570	2300	2050
39	180	11.6	Soft point semi pointed boattail Ⓣ	634	2610	2400	2210	2020
142	180	11.6	Soft point "Nosler"	600	2610	2400	2210	2020
236	180	11.6	Soft point "Dual-Core" Ⓣ	578	2610	2400	2210	2020

7.62 RUSSIAN (Case index no. 819)

214	180	11.6	Soft point semi pointed boattail Ⓣ	528	2624	2415	2222	2030

30-06 (Case index no. 766)



40	130	8.4	Soft point semi pointed boattail Ⓣ	529	3280	2951	2636	2338
43	150	9.7	Soft point semi pointed Ⓣ	606	2970	2680	2402	2141
213	150	9.7	Soft point "Nosler"	601	2970	2680	2402	2141
45	180	11.6	Soft point semi pointed boattail Ⓣ	528	2700	2494	2296	2109
212	180	11.6	Soft point "Nosler"	600	2700	2494	2296	2109
235	180	11.6	Soft point "Dual-Core" Ⓣ	578	2700	2494	2296	2109
48	220	14.2	Soft point round nose Ⓣ	534	2410	2197	1996	1809

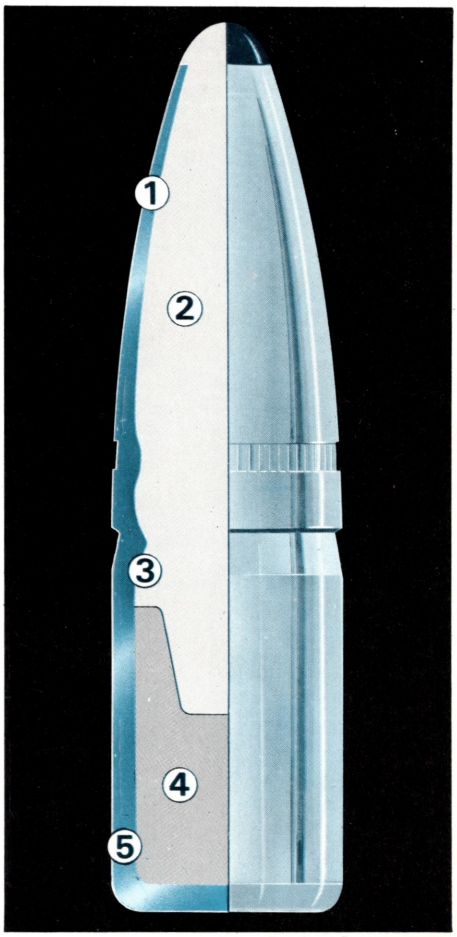
Ⓣ Norma TRI-CLAD® bullet, a soft steel jacket covered with gilding metal or nickel alloy on both sides preventing corrosion and barrel wear.

Cart. index no.	Bullet weight grains	Bullet weight grams	Bullet style	Bullet index no.	Velocity – Feet per sec. Muzzle	100 yards	200 yards	300 yards
300 H&H (Case index no. 767)								
50	180	11.6	Soft point semi pointed boattail Ⓣ	528	2920	2706	2500	2297
53	220	14.2	Soft point round nose Ⓣ	534	2620	2400	2170	1986
7.65 ARGENTINE (Case index no. 815)								
187	150	9.7	Soft point semi pointed Ⓣ	564	2920	2630	2355	2105
303 BRITISH (Case index no. 768)								
55	130	8.4	Soft point semi pointed	536	2790	2483	2195	1929
147	150	9.7	Soft point semi pointed Ⓣ	564	2720	2440	2170	1930
56	180	11.6	Soft point semi pointed boattail	537	2540	2340	2147	1965
7.7 JAP. (Case index no. 769)								
110	130	8.4	Soft point semi pointed	536	2952	2635	2340	2065
58	180	11.6	Soft point semi pointed boattail	537	2493	2292	2101	1922
8×57 JR (Case index no. 770)								
61	196	12.7	Soft point round nose Ⓣ	539	2362	2045	1761	1513
8×57 JS (Case index no. 772)								
63	123	8.0	Soft point semi pointed	541	2888	2515	2170	1857
64	159	10.3	Soft point round nose Ⓣ	542	2724	2362	2030	1734
65	196	12.7	Soft point round nose Ⓣ	540	2526	2195	1894	1627
69	227	14.7	Soft point round nose Ⓣ	546	2329	2085	1855	1650
358 NORMA MAGNUM (Case index no. 796)								
152	250	16.2	Soft point semi pointed Ⓣ	548	2800	2493	2231	2001
358 WIN. (Case index no. 774)								
71	200	13.0	Soft point semi pointed Ⓣ	547	2530	2210	1910	1640
72	250	16.2	Soft point semi pointed Ⓣ	548	2250	2010	1780	1570
9.3×57 (Case index no. 775)								
74	286	18.5	Soft point round nose Ⓣ	550	2067	1818	1595	1404
9.3×62 (Case index no. 776)								
75	232	15.0	Hollow point boattail	549	2624	2304	2009	1742
375 H&H (Case index no. 778)								
85	300	19.4	Soft point semi pointed	554	2550	2280	2040	1830

Ⓣ Norma TRI-CLAD® bullet, a soft steel jacket covered with gilding metal or nickel alloy on both sides preventing corrosion and barrel wear.

norma SPECIAL DESIGNS

The bullet everybody likes!



DUAL-CORE®

The Norma DUAL-CORE is a hunting bullet design featuring two lead cores behind each other. The front core has a 1,5% antimony content and thereby exactly the right toughness for perfect mushrooming. The rear core is hardened with 5% antimony which makes it stay together and increase penetration. The two cores are built into a special soft-steel jacket deliberately made thin at the expanding front end and reinforced at the rear to control expansion. A non-rusting, non-tarnishing coating acts as a lubricant between bullet and barrel increasing barrel life. The rotating, knifelike strips of the expanded steel jacket provide for an enormous killing power also by being stiff enough to remain at an angle and thereby support the expanded front lead. The Norma DUAL-CORE bullet is available in 308 Win. 30-06 and 308 Norma Magnum cartridges and also as a reloading component.

1. Thin front jacket.
2. Expanding front core.
3. Cannelure and "step" in jacket.
4. Hardened rear core.
5. Reinforced rear jacket.

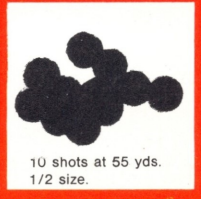
38 SPECIAL

Semi-wadcutter—158 grains

There is a limit as to how fast a lead bullet can be driven before it starts leading up the barrel, stripping the rifling and even getting deformed when leaving the muzzle. All this destroys accuracy. For powerful defence and police loads as well as for 50-yard match shooting Norma designed this full jacketed semi wadcutter bullet. The gilding metal jacket does not cause any undue barrel wear, but does away with barrel fouling and gives an almost incredible accuracy. This semi wadcutter bullet (index No. 651) can be loaded to any velocity the breech pressure will permit, and is also a handloader's delight:

1. No sizing required.
2. No lubricating required.
3. Will not shave lead during seating.
4. Will not "shoot loose" from recoil.
5. Precision-made crimping groove insures uniform bullet pull.

10 shots at 55 yds. 1/2 size.

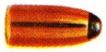


10 shots at 55 yds. 1/2 size.

norma TARGET AND HUNTING BULLETS

The super accurate Norma bullets come in a great variety of calibers and styles, covering the entire range from the smallest varmint to the heaviest bear or moose, – and targets at all ranges.

22 CAL. (.223)



No. 679 – 45 grains

22 CAL. (.224)

No. 607 – 50 grains

No. 608 – 50 grains

No. 609 – 55 grains

6 MM (.243)

No. 503 – 75 grains

No. 504 – 90 grains

No. 565 – 100 grains

No. 566 – 100 grains

25 CAL. (.257)

No. 505 – 87 grains

No. 506 – 100 grains

No. 507 – 120 grains

6.5 MM (.264)

No. 617 – 77 grains

No. 618 – 139 grains

No. 512 – 139 grains

No. 509 – 156 grains

270 CAL. (.277)

No. 621 – 110 grains

No. 515 – 130 grains

No. 516 – 130 grains

No. 518 – 150 grains

7 MM (.283)

No. 624 – 110 grains

No. 520 – 150 grains

7 MM (.283)

No. 523 – 160 grains

No. 522 – 175 grains

30 CAL. (.308)

No. 524 – 110 grains

No. 525 – 110 grains

No. 529 – 130 grains

No. 656 – 146 grains

No. 561 – 150 grains

No. 630 – 150 grains

No. 633 – 170 grains

No. 634 – 180 grains

DUAL-CORE®

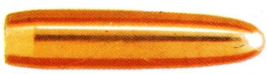
No. 575 – 180 grains

No. 578 – 180 grains

30 CAL. (.308)

No. 583 – 180 grains

No. 534 – 220 grains



No. 535 – 220 grains

303 CAL. (.311)

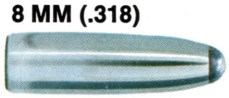
No. 536 – 130 grains

No. 564 – 150 grains

No. 537 – 180 grains

No. 538 – 215 grains

8 MM (.318)



No. 539 – 196 grains

8 MM S (.323)

No. 637 – 123 grains

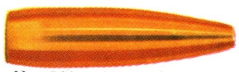
No. 542 – 159 grains

No. 540 – 196 grains

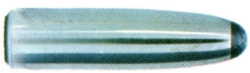
8 MM S (.323)

DUAL-CORE®

No. 570 – 196 grains



No. 544 – 198 grains



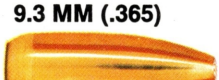
No. 546 – 227 grains

35 CAL. (.358)

No. 547 – 200 grains

No. 548 – 250 grains

9.3 MM (.365)



No. 549 – 232 grains

No. 550 – 286 grains

No. 552 – 286 grains

375 CAL. (.375)

No. 640 – 270 grains

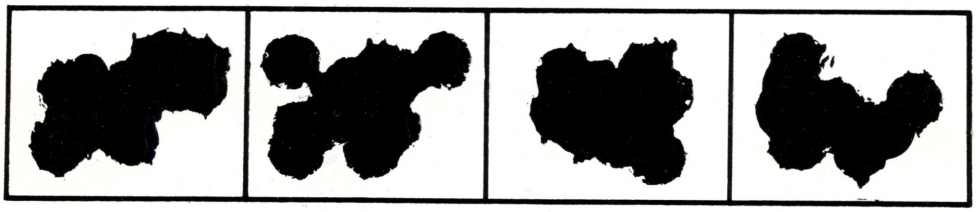
No. 641 – 300 grains

NOTICE: Silver – coloured bullets are made with the famous Norma TRI-CLAD® jacket.

DUAL-CORE®
bullet fired at
bull moose, 300 yds.

DUAL-CORE®

ten-shot groups with .308 diam. 180 grain bullet, fired from machine rest at 110 yds. (100 meters).



norma

CENTERFIRE PISTOL- & REVOLVER CARTRIDGES, CASES & BULLETS

	Cartridge index no.	Muzzle Velocity f/sec.	Muzzle Energy f/pounds	Barrel length inches	Case index no.	Bullet index no.	Bullet weight grains	Bullet weight grams
25 ACP	252	810	100	2.0	845	680	50	3.2
30 LUGER	88	1230	312	4.7	780	556	93	6.0
32 ACP	86	900	139	4.0	779	555	77	5.0
32 S&W*	265	680	87	3.0	851	698	85	5.5
32 S&W LONG	253	705	151	4.0	846	681	98	6.4
7.5 NAGANT	186	722	142	4.5	800	592	104	6.7
9 MM LUGER	91	1165	350	4.7	781	557	116	7.5
357 MAGNUM	174	1450	735	8.3/8	806	576	158	10.2
380 ACP*	260	955	190	3.3/4	849	646	95	6.1
38 SPECIAL	96	800	195	6.0	782	558	148	9.6
	97	870	266	6.0	782	559	158	10.2
	95	900	285	6.0	782	651	158	10.2
380 MK II	263	620	153	5.0	816	658	180	11.6
38 S&W	216	730	173	4.0	820	605	146	9.5
44 MAGNUM	175	1675	1496	18.5	808	577	240	15.6
	176	1705**	1550	18.5	808	577	240	15.6
45 ACP*	264	850	370	5.0	850	692	230	14.9

25 CAL. (.251 DIAM.)
Full jacket round nose

30 CAL. (.308 DIAM.)
Full jacket round nose
No. 560 – SPRN 93 grains

32 CAL. (.308 DIAM.)
Full jacket round nose

32 CAL. (.314 DIAM.)
Lead round nose

32 CAL. (.314 DIAM.)
Lead round nose

7.5 MM (.327 DIAM.)
Lead round nose

9 MM (.355 DIAM.)
Full jacket round nose
No. 696 – HP 115 grains

38 CAL. (.357 DIAM.)
Soft point flat nose

38 CAL. (.356 DIAM.)
Full jacket round nose

38 CAL. (.357 DIAM.)
Lead wadc.
Lead r. nose
Full jacket semi wadc.

38 CAL. (.357 DIAM.)
Full jacket round nose

38 CAL. (.359 DIAM.)
Lead round nose

44 CAL. (.430 DIAM.)
Soft point flat nose Ⓣ

45 CAL. (.451 DIAM.)
Hollow point

*) Available in june 1967.

**) Special carbine load, case cannelured for identification.

norma

SUPERFLASH® PRIMERS

The Norma primer program consists of four types that cover the entire range of rifle and handgun ammunition, eliminating the necessity of a special magnum primer. Norma primers incorporate in every detail the most advanced metallurgical and chemical developments. They are non-corrosive and contain no mercury or abrasive ingredients that increase barrel wear.

SMALL PISTOL (SP)
175″ diameter, for revolver and automatic pistol cartridges.

SMALL RIFLE (SR)
175″ diameter, for small caliber rifle cartridges, such as 222, 30 US Carbine and others.

LARGE PISTOL (LP)
210″ diameter, for large caliber revolver and automatic cartridges.

LARGE RIFLE (LR)
210″ diameter, for rifle cartridges including magnums.

norma RIFLE POWDERS

Canisters of 400 grams net.

NORMA 200
A fast-burning powder, for small capacity cartridge cases such as the 222, but also most excellent for use with light bullets and/or light loads in larger calibers.

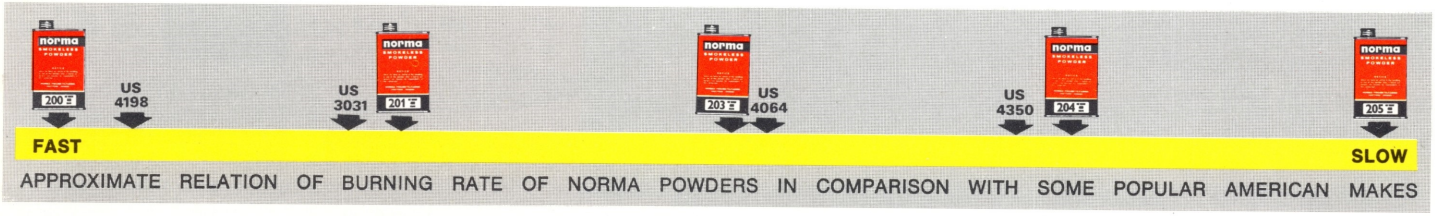
NORMA 201
Slower than the 200, used with the lighter bullets in medium-size cases, or with some big-caliber cartridges where there is a large bore volume to be filled up quickly by the expanding gases.

NORMA 203
The 203 is adjusted to fit the medium-sized cartridge types such as the 30-06, 303 British, European 7 and 8 MM's etc. unless light bullets necessitate a faster powder.

NORMA 204
A slow-burning powder, especially adapted for cartridges with a large case capacity and/or using heavy bullets in relation to the caliber.

NORMA 205
An exceptionally slow-burning, high-energy powder for highest velocity with large capacity cases. A must for Magnums.

For loading data, see the Norma "Gunbug's Guide" available from your ammunition dealer.

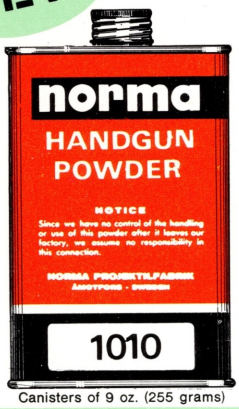


APPROXIMATE RELATION OF BURNING RATE OF NORMA POWDERS IN COMPARISON WITH SOME POPULAR AMERICAN MAKES

norma

HANDGUN POWDERS

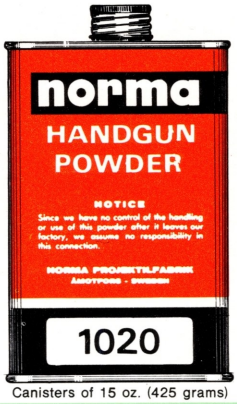
NEW



Canisters of 9 oz. (255 grams)

THE NORMA 1010

is a fast burning easily ignited powder for revolver and pistol ammunition. It is produced from a double base composition and consequently it is virtually non-hygroscopic. As a result velocities and pressures show little change if the powder is exposed to very dry or damp conditions. The granules are of such a shape that they flow very freely in the powder measure thereby ensuring higher load to load uniformity.



Canisters of 15 oz. (425 grams)

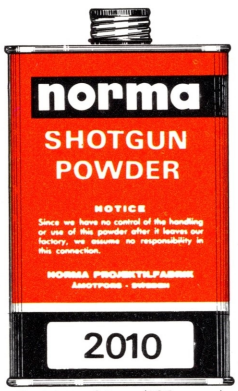
THE NORMA 1020

is a slower burning powder especially designed for high velocity loads at economical charge weights in Magnum handgun calibres. Like Norma 1010 it is produced from a double base composition and thus is virtually non-hygroscopic. The small disc shaped granules have excellent flow properties and the powder is eminently suitable for use in powder measures.

NEW

norma

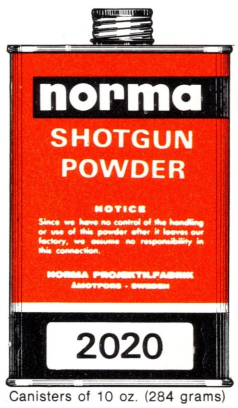
SHOTGUN POWDERS



Canisters of 8 oz. (227 grams)

THE NORMA 2010

has been designed for light and standard shotshell loads and is especially suited for skeet and trap cartridges. It is a double base powder and is virtually non-hygroscopic. In addition it contains ingredients which reduce the gas temperature and consequently the barrel temperature and it is thus particularly easy on both the shell and the gun. The special method of manufacture employed gives granules with excellent flow properties, the thickness being such that they will not bind in the powder measure.



Canisters of 10 oz. (284 grams)

THE NORMA 2020

is a slower burning powder specially designed for Magnum and hunting loads with the heavier shot charge. It is similar in composition and granule form to Norma 2010 and possesses all the excellent properties of the latter powder. Both powders are suitable for use in all climatic conditions.

LOADING DATA FOR SHOTGUN CARTRIDGES WITH NORMA POWDER NO. 2010 (Wad pressure 50 lbs.)

Bore	Case Length (inches)	Make & Type Case	Make & Type Primer	Load. (grains)	Wad Column	Shot Charge (oz.)	Closure	Muzzle Velocity (f./sec.)	Measured Velocity at 30 ft
10	2⅞	Eley Paper	Eley 1B	31.0 30.0	.125″ card, 2 pc. ⅜″ Felt Wads	1¼ 1⅝	Rolled	1440 1200	1130 1020
12	2¾	Win. "Ranger" Plastic	Win. Western 209	21.5 20.0 22.5 21.0 23.5 22.0	.135″ card, ½″ Felt Plastic Airwedge, ⅜″ Felt .135″ card, ⅜ & ¼″ Felt Plastic Airwedge, ½″ Felt .135″ card, ½″ Felt Plastic Airwedge, ⅜″ Felt	1⅛ 1⅛ 1 1 1⅛ 1⅛	Fold	1130 1180 1160 1270 1230 1290	980 1010 1000 1050 1030 1060
		Rem. "Super-Speed" Paper	Rem. 57	18.0 19.0 21.0	Rem. Power Piston (Green)	1⅛	Fold	1160 1230 1380	1000 1030 1100

(Continued)

LOADING DATA FOR SHOTGUN CARTRIDGES WITH NORMA POWDER NO. 2010 (Wad Pressure 50 lbs.)

Bore	Case Length (inches)	Make & Type Case	Make & Type Primer	Load. (grains)	Wad Column	Shot Charge (oz.)	Closure	Muzzle Velocity (f./sec.)	Measured Velocity at 30 ft
12	2¾	Rem. "Super-Speed" Plastic	Rem. 97	18.0 19.0 21.0	Rem. Power Piston (White)	1⅛	Fold	1270 1380 1460	1050 1100 1140
		Federal "Monark" Paper	Federal 209	18.0 19.0 20.0	Federal Champion Pellet Protector	1⅛	Fold	1250 1320 1350	1040 1070 1090
		West. "Xpert" Paper	Win. Western 209	18.0 19.0	Olin Win. Wad	1⅛	Fold	1200 1230	1020 1030
		West. "Xpert" Plastic	Win. Western 209	19.0 20.0	Olin Win. Wad	1⅛	Fold	1110 1250	970 1040
		Rem. S.S. Paper	Rem. 57	17.0 18.0	Alcan No. 1 Flite Max	1⅛	Fold	1200 1270	1020 1050
		Western "Xpert" Paper	Win. Western 209	17.0 18.0	Alcan No. 1 Flite Max	1⅛	Fold	1130 1290	980 1060
		Western "Xpert" Paper	C.C.I. 109	18.0 19.0 21.0	Olin Win. Wad	1⅛	Fold	1200 1250 1420	1020 1040 1120
16	2¾	Eley Paper	Eley 1B	19.0 20.0	.125″ card, 2 pc. ⅜″ Felt, .125″ card .125″ card, 2 pc. ⅜″ Felt, .100″ card	1	Rolled	1130 1180	980 1010
20	2¾	Eley Paper	Eley 1B	16.0 17.5	.125″ card, 2 pc. ⅜″ Felt, .125″ card .125″ card, 2 pc. ⅜″ Felt, .100″ card	⅞	Rolled	1080 1160	950 1000

LOADING DATA FOR SHOTGUN CARTRIDGES WITH NORMA POWDER NO. 2020 (Wad Pressure 50 lbs.)

10	2⅞	Eley Paper	Eley 1B	44.0 43.0	.125″ card, 2 pc. ⅜″ Felt Wad	1¼ 1⅝	Rolled	1590 1460	1220 1140
12	2¾	Win. "Ranger" Plastic	Win. Western 209	28.0 31.0 29.0 32.0 30.0	Plastic "Airwedge", ⅜″ Felt .135″ card, ⅜″ Felt Plastic "Airwedge", ⅜″ Felt .135″ card, ¼″ Felt Plastic "Airwedge", ¼″ Felt	1¼ 1¼ 1¼ 1½ 1½	Fold	1230 1160 1340 1130 1270	1030 1000 1080 980 1050
16	2¾	Eley Paper	Eley 1B	26.0	.125″ card, ½″ Felt, .125″ card	1⅛	Fold	1250	1040
20	2¾	Eley Paper	Eley 1B	20.0 21.0	.125″ card, 2 pc. ⅜″ Felt Wad .125″ card, ½″ Felt, .125″ card	1 1⅛	Rolled	1110 1130	970 980

The norma line of magnums

With the Super 7×61, the 308 and 358 Norma Magnums, Norma offers a complete line of ultra modern short magnum cartridges. Suitable for standard 30-06 magazine length, these cartridges are ideal for conversions and "magnumizing" of existing rifles.

THE GUNBUG'S GUIDE

is a continuation of the Beginner's Guide, describing the manufacture of ammunition, how bullet velocity and breech pressure are measured, how to handle brass in reloading plus 10 pages of handloading data for Norma powders, including Weatherby loads. A "must" for the handloader, 1 $ at your dealer's.

THE BEGINNER'S GUIDE

opens the door to the shooting world for the young people and others who want to get into this fine hobby. An interesting introduction to guns and ammo, for free from your dealer, or wright Norma Precision, South Lansing, N.Y. Dept. GAI 967.

BALLISTICS FOR NORMA MAGNUM CARTRIDGES:

⊕ indicates preferable sighting range with line of sights 1½″ above center of bore + indicates point of impact in inches above – in inches below sighting point

Caliber	Weight		Pressure	Velocity – Feet per sec.				Energy – Foot pounds												
	Grains	Grams	psi	Muzzle	100 Yards	200 Yards	300 Yards	Muzzle	100 Yards	200 Yards	300 Yards	25 Yards	50 Yards	100 Yards	150 Yards	200 Yards	250 Yards	300 Yards	400 Yards	500 Yards
7×61 Soft point	160	10.4	49000	3150	2927	2757	2595	3415	3045	2701	2393	-0.4	+0.4	+1.3	+1.2	⊕	-2.3	-5.9	-16.9	-33.9
7×61 Nosler	160	10.4	49000	3150	2927	2757	2595	3415	3045	2701	2393	-0.4	+0.4	+1.3	+1.2	⊕	-2.3	-5.9	-16.9	-33.9
308 Norma M.	180	11.6	51600	3100	2881	2668	2464	3842	3318	2846	2427	-0.4	+0.4	+1.4	+1.2	⊕	-2.5	-6.2	-18.3	-37.1
358 Norma M.	250	16.2	51100	2800	2493	2231	2001	4322	3451	2764	2223	-0.4	+0.3	+0.8	⊕	-2.4	-6.4	-12.4	-30.9	-59.2

7×61 = 26 inch barrel. 308 and 358 = 24 inch barrel.

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